



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/872,656	06/01/2001	Masahiko Hatori	JP920000188US1	2784

25299 7590 06/24/2004

IBM CORPORATION  
PO BOX 12195  
DEPT 9CCA, BLDG 002  
RESEARCH TRIANGLE PARK, NC 27709

EXAMINER

NGUYEN, KIMNHUNG T

ART UNIT PAPER NUMBER

2674

DATE MAILED: 06/24/2004

8

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

09/872,656

Applicant(s)

HATORI ET AL.

Examiner

Kimnhung Nguyen

Art Unit

2674

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 20 January 2004.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-21 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-21 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

## Attachment(s)

- ☐ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.
- ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Other: \_\_\_\_\_.

### DETAILED ACTION

This Application has been examined. The claims 1-21 are pending. The examination results are as following.

#### *Claim Objections*

1. Claims 1-21 are objected to because of the following informalities:

In claim 1, lines 3-4, what is meant by “ display screen coupled to the CPO”? Is it “display screen coupled to the CPU”? Appropriate correction is required.

#### *Claim Rejections - 35 USC § 112*

2. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

3. Claims 1-21 are is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

In claim 1, lines 8-9, “said display apparatus so as to be displayed over a portion of the display screen after the resolution is changed by said resolution changing unit” is not supported in the specification.

The Substitute Specification does mention “the window may be displayed on almost the entire display screen 70 with a changed resolution at which the window is positioned” on page

Art Unit: 2674

29, lines 10-11. However, Substitute Specification does not disclose said display apparatus so as to be displayed over a portion of the display screen after the resolution is changed by said resolution changing unit” as claim 1.

***Claim Rejections - 35 USC § 102***

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

5. Claims 1-4, 7, 9-13 and 15-21 are rejected under 35 U.S.C. 102(e) as being anticipated by Chekerylla (US patent 6,084,598).

Regarding claims 1, 13 Chekeralla discloses in figures 1-2 that a computer system or display control apparatus having a central processing (CPU, figure 1) and a display apparatus (CRT or flat panel, see column 4, lines 36-37), the computer system comprising an input unit for generating a predetermined event (see keyboard 107, or mouse 108) for accepting a user operation to generate a predetermined event (see zoom factor, column 8, lines 29-38); a resolution changing unit for changing the resolution of said display apparatus in response to the input event generated by said input unit (see computer generated buttons such as pull down physical buttons (see column 5, lines 55-57), and a window resizing unit for in response to said event generated by said input unit, resizing a predetermined window displayed on the display apparatus so as to be displayed

Art Unit: 2674

over almost the entire display screen after the resolution is changed by said resolution changing unit (see image window change of resolution and the size change, see figure 1, column 5, lines 61-67 and column 6, lines 1-21).

Regarding claim 2, Chekeralla discloses an inherent that the window resizing unit resizes a window being active.

Regarding claim 3, Chekeralla discloses in figures 1-2 the computer system comprising a display apparatus restoring unit (206) for holding a display status (see execution of the program of computer system 114, see RAM 102, hard drive store device 103, see column 8, lines 65-67 and column 9, lines 1-24) before the resolution is changed by said resolution changing unit, and when the resolution of the display apparatus is restores to the resolution before being change, restoring the resolution of said display apparatus to held display status (see figure 2, column 10, lines 9-34).

Regarding claims 4, 7, Chekeralla discloses a computer system comprising an input unit (mouse 107 keyboard 108) for accepting a predetermined input, and a display zoom factor (see zoom in, zoom out figure 2) changing unit for changing a display zoom factor by changing the resolution of a display apparatus in response to a predetermined input (see column 10, lines 21-45), wherein the input unit is a button displayed on the display screen of said display apparatus through a graphical user interface (see column 4, lines 47-51 and column 5, lines 34-40).

Regarding claim 9, Chekeralla discloses a display control apparatus comprising an input unit (mouse 107 and keyboard 108); and a display zoom-in unit (209, figure 2) for zooming in on a display by lowering the resolution of said display apparatus in response to a request for zooming-in accepted by input unit (see zoom in control 209 increase the size of the image, see column 10, lines 25-30, because zoom in 209 increase the size of the image, therefore a display image is enlarged by lowering its resolution).

Regarding claims 10-12 and 15, Chekeralla discloses that a display control apparatus comprising an input unit (mouse 107, keyboard 108) for accepting a predetermined input; and a display control unit for changing a display zoom factor by changing the resolution of a display apparatus in response to a display zoom factor change request accepted by the input unit (see figure 2, see column 5, lines 60-67, column 6, lines 1-7, and column 8, lines 29-38, and column 10, lines 21-45); the input unit presents display zoom factors (see zoom-in 209, zoom-out 210) and display apparatus controlled by display-zoom-in unit to a user and accepts a request for zooming in by a selected display zoom factor (see figure 2); a display status restoring unit (206, figure 2) for holding a display status (see execution of the program of computer system 114, see RAM 102, hard drive store device 103, see column 8, lines 65-67 and column 9, lines 1-24) before the zooming-in by said display-zoom-in unit and when the display-zooming-in is completed and restores said held display status (see figure 8); furthermore, Chekeralla discloses the display control apparatus comprising a window resizing unit for resizing a predetermined

Art Unit: 2674

window displayed on the display screen of the display apparatus (see Microsoft Windows 95, see column 4, lines 31-41) so as to match the display screen zoomed in by the display-zoom-in unit (209, see figure 2).

Regarding claims 16-19, Chekerylla discloses the input section is used for inputting a request for changing a display zoom factor on the display screen as a command input (see figure 6, see display image and process user command, see column 9, lines 48-52); the display screen displays the image by using factor responsive to request for changing the display zoom factor (see figure 2); and after the step of changing the display zoom factor, resizing a predetermined window displayed on the display screen so as to match the display screen after the display zoom factor is changed (see abstract, see column 10, lines 21-51 and column 12, lines 22-39).

Regarding claim 20, Chekerylla discloses a storage medium storing a program to be executed by a computer in a form readable by the input unit of the computer (see, execution of the program of computer system 114, see RAM 102, hard drive store device 103, see column 8, lines 65-67 and column 9, lines 1-24) wherein the program causes said computer to perform the processes of accepting a request for changing a display zoom factor on the display screen; and changing the resolution of the display apparatus to change the display zoom factor of the display screen to a display zoom factor responsive to the request for changing display zoom factor (see figure 2, see column 2, lines 66-67,

Art Unit: 2674

column 3, lines 1-3, column 8, lines 29-38, column 10, lines 21-51 and column 12, lines 14-39).

Regarding claim 21, Chekerylla discloses a program transmission apparatus (see computer system having a computer program, and as a memory device loaded with that computer program for execution in a computer system, see column 4, lines 31-46) comprising a storage unit (206, figure 2) for storing a program for causing a computer to perform the processes of accepting a request for changing a display zoom factor (see zoom in, zoom out) on the display screen and changing the resolution of the display apparatus to change the display zoom factor; and a transmission unit for reading the program from the storage unit to transmit said program (see column 2, lines 66-67 and column 3, lines 1-3, column 10, lines 21-51 and column 12, lines 14-39).

***Claim Rejections - 35 USC § 103***

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. Claims 5-6 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chekerlla (US patent 6,084,598) in view of Takagi et al. (US patent 5,833,050).

Chekerlla discloses every feature of the claims invention, excluding wherein the input device is an electrical switch or a hardware switch or a key switch provided in addition to



key switches of the keyboard used for common inputs. Takagi et al. disclose in figure 1 a key switch device (1) or electrical switch or hardware switch is provided in which a key top is kept at an operation position when a key operation is carried out and is locked at a non-operation position lower than the operation position (see abstract); a key switch (1) is provided in addition to key switches of the keyboard used for common inputs (see key switch device (1) is applied to a keyboard equipped with plurality keyswitches of keyboard, see column 7, lines 18-26). It would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the key switch device (1) is applied to a keyboard equipped with plurality keyswitches as taught by Takagi et al. into the computer system of Chakerylla because this would perform a key clicking function to a keyboard with a plural keyswitches and respective holder member are integrally formed in correspondence to the respective keyswitch devices on the entire keyboard (see Takagi et al. column 7, lines 22-26).

8. Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Chekerylla (US patent 6,084,598) in view of Curtis (US patent 6,580,434).

Chekerylla discloses a computer system comprising an input unit and a display zoom factor as discussed above. However Chekerlla does not disclose that wherein the input unit is a voice input apparatus. Curtis disclose a conventional computer (20) comprising a program modules may be stored on the hard disk, magnetic disk (29), ROM (24) or RAM (25). The computer (20) may be connected to keyboard (40) or other input devices such as microphone (voice input, see column 5, lines 30-47). It would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the voice

Art Unit: 2674

input device such as microphone as taught by Curtis into the display system of Chekerylla because this would convert the sound signal from the outside to the main processing unit.

***Response To Arguments***

9. Application's arguments filed on 1-20-03 have been fully considered but they are not persuasive.

Applicant argues that the Chekerylla does not teach both the resolution and the resizing of the image. However, examiner respectfully disagrees with the argument because Chekerylla discloses the computer system comprising an input unit for generating a predetermined event (see keyboard 107, or mouse 108) for accepting a user operation to generate a predetermined event (see zoom factor, column 8, lines 29-38); a resolution changing unit for changing the resolution of said display apparatus in response to the input event generated by said input unit (see computer generated buttons such as pull down physical buttons (see column 5, lines 55-57), and a window resizing unit for in response to said event generated by said input unit, resizing a predetermined window displayed on the display apparatus and displayed over the entire display screen after the resolution is changed by said resolution changing unit (see image window change of resolution and the size change, see figure 1, column 5, lines 61-67 and column 6, lines 1-21). For these reasons, the rejections are maintained.

10. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

Art Unit: 2674

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

### ***Correspondence***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kimnhung Nguyen whose telephone number (703) 308-0425.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **RICHARD A HJERPE** can be reached on **(703) 305-4709**.

**Any response to this action should be mailed to:**

Commissioner of Patents and Trademarks

Washington, D. C. 20231

**Or faxed to:**


**(703) 872-9314 (for Technology Center 2600 only).**

Hand-delivery response should be brought to: Crystal Park II, 2121 Crystal Drive, Arlington, VA Sixth Floor (Receptionist).

Art Unit: 2674

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

Kimnhung Nguyen  
June 22, 2004

  
6/23/04  
RICHARD HJERPE  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2600